

## TABLE OF CONTENTS

<u>Section</u>	<u>Title</u>	<u>Page</u>
<b>CHAPTER 2 SITE CHARACTERISTICS .....</b>		<b>2-1</b>
2.1 <b>Geography and Demography.....</b>		<b>2-1</b>
2.1.1 Combined License Information for Geography and Demography .....		2-1
2.2 <b>Nearby Industrial, Transportation, and Military Facilities.....</b>		<b>2-1</b>
2.2.1 Combined License Information for Identification of Site-Specific Potential Hazards .....		2-3
2.3 <b>Meteorology .....</b>		<b>2-3</b>
2.3.1 Regional Climatology .....		2-3
2.3.2 Local Meteorology.....		2-3
2.3.3 Onsite Meteorological Measurement Programs .....		2-3
2.3.4 Short-Term Diffusion Estimates .....		2-3
2.3.5 Long-Term Diffusion Estimates .....		2-4
2.3.6 Combined License Information .....		2-4
2.3.6.1 Regional Climatology.....		2-4
2.3.6.2 Local Meteorology .....		2-4
2.3.6.3 Onsite Meteorological Measurements Program.....		2-4
2.3.6.4 Short-Term Diffusion Estimates.....		2-4
2.3.6.5 Long-Term Diffusion Estimates.....		2-5
2.4 <b>Hydrologic Engineering .....</b>		<b>2-5</b>
2.4.1 Combined License Information .....		2-5
2.4.1.1 Hydrological Description .....		2-5
2.4.1.2 Floods.....		2-5
2.4.1.3 Cooling Water Supply.....		2-6
2.4.1.4 Groundwater.....		2-6
2.4.1.5 Accidental Release of Liquid Effluents in Ground and Surface Water.....		2-6
2.4.1.6 Emergency Operation Requirement .....		2-6
2.5 <b>Geology, Seismology, and Geotechnical Engineering.....</b>		<b>2-6</b>
2.5.1 Basic Geological and Seismic Combined License Information .....		2-7
2.5.2 Vibratory Ground Motion .....		2-7
2.5.2.1 Combined License Seismic and Tectonic Characteristics Information.....		2-7
2.5.2.2 Site-Specific Seismic Structures.....		2-9
2.5.2.3 Site-Specific Seismic Evaluation.....		2-9
2.5.3 Surface Faulting Combined License Information .....		2-10
2.5.4 Stability and Uniformity of Subsurface Materials and Foundations .....		2-11
2.5.4.1 Excavation.....		2-11
2.5.4.2 Bearing Capacity.....		2-13
2.5.4.3 Settlement.....		2-13
2.5.4.4 Liquefaction .....		2-15
2.5.4.5 Subsurface Uniformity .....		2-15
2.5.4.6 Combined License Information .....		2-18
2.5.5 Combined License Information for Stability of Slopes.....		2-20
2.5.6 Combined License Information for Embankments and Dams .....		2-20
2.6 <b>References.....</b>		<b>2-20</b>

**LIST OF TABLES**

<b><u>Table No.</u></b>	<b><u>Title</u></b>	<b><u>Page</u></b>
2-1	Site Parameters (Sheets 1 – 4).....	2-22
2.2-1	AP1000 Onsite Explosion Safe Distances.....	2-27
2.5-1	Limits of Acceptable Settlement Without Additional Evaluation .....	2-28